



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं. 48] नई दिल्ली, शनिवार, नवम्बर 29, 1980 (अग्रहायण 8, 1902)

No. 48] NEW DELHI, SATURDAY, NOVEMBER 29, 1980 (AGRAHAYANA 8, 1902)

इस भाग में मिन्न पृष्ठ संख्या दी जाती है जिससे कि यह असर संकलन के रूप में रखा जा सके।

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

##### THE PATENT OFFICE

##### PATENTS & DESIGNS

Calcutta, the 29th November 1980

##### CORRIGENDA

(1)

In the Gazette of India, Part III, Section 2, dated 5th April 1980 under the heading "COMPLETE SPECIFICATION ACCEPTED".

In page 182, column 1, line 12, against No. 147554.

for "Patent Office, Delhi Branch"  
read "Patent Office, Calcutta".

(2)

In the Gazette of India, Part III, Section 2, dated the 12th April 1980, under the heading "COMPLETE SPECIFICATION ACCEPTED".

In page 190, column 1, line 9, against No. 147567.

for 360/Bom/76  
read 369/Bom/76

(3)

In the Gazette of India, Part III, Section 2, dated the 24th May 1980 under the heading "COMPLETE SPECIFICATION ACCEPTED".

In page 271, column 2, line 6 and 8 against No. 147678.

for "DE 1 'ALUMINIUM"  
read "DE L 'ALUMINIUM"

1—347GI/80

(4)

In the Gazette of India, Part III, Section 2, dated the 26th July 1980, under the heading "COMPLETE SPECIFICATION ACCEPTED".

In page 398, column 1, please insert complete specification No. 147882 with all its subject matter given below after No. 147881.

CLASS 32Fc. 147882.  
Int. Cl.C07c 67/00, 31/00.

"PROCESS FOR RECOVERY OF SUBSTITUTED OR UNSUBSTITUTED BENZOIC ACID, BENZALDEHYDE, BENZYL ALCOHOL, BENZYL BENZOATE AND/OR SUBSTITUTED OR UNSUBSTITUTED BENZY ESTERS OF A CARBOXYLIC ACID AND/OR BENZOATE SALTS".

*Applicant : STAMICARBON B.V., of GFLEEN, THE NETHERLANDS, P.O. Box 10.*

*Inventor : CORNELIS JONGSMA.*

*Application No. 6/Del/78 filed January 4, 1978.*

*Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.*

27 Claims.

Process for recovering from a stream containing substituted or unsubstituted benzoic acid, benzaldehyde, benzyl alcohol, benzyl benzoate and/or substituted or unsubstituted benzyl esters of volatile carboxylic acids, substituted or unsubstituted benzoic acid, benzaldehyde, benzyl alcohol, benzyl benzoate and/or substituted or unsubstituted benzyl esters of a carboxylic acid and/or benzoate salts in a pure state, said stream having been obtained by oxidising a substituted or unsubstituted

toluene by means of a gas containing molecular oxygen, an' said recovery by known methods, characterised in that in this stream said benzyl alcohol and/or said benzyl esters of volatile carboxylic acids are (re-)esterified using a carboxylic acid as the exterification agent thereby raising the boiling point of said benzyl alcohol and/or benzyl esters of volatile carboxylic acids and thereby enabling the recovery of substituted or unsubstituted benzoic acid, benzaldehyde, benzyl alcohol, benzyl benzoate and/or substituted or unsubstituted benzyl esters of carboxylic acids.

Comp. Specn. 27 Pages.

Drg. 2 Sheets.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD,

CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section of the Act.

23rd October, 1980

1196/Cal/80. Omark Industries, Inc. Steel railroad sleeper. (November 27, 1979).

1197/Cal/80. F. I. Du Point De Nemours and Company Resin-bonded water-bearing explosive.

1198/Cal/80. Mitsui Toatsu Chemicals, Incorporated, an' Toyo Engineering Corporation. Method of manufacturing rubber modified styrenes resins.

1199/Cal/80. Hitachi Ltd. Helical winding for inductor.

1200/Cal/80. W. W. Rader. Self sharpening pencil.

1201/Cal/80. Dr. C. Otto Gesellschaft Fur Kohledruckvergasung MBH., and Saarberg. Conveying pipe extending through a pressurized tank.

24th October, 1980

1202/Cal/80. The Dexter Corporation. Heat seal fibrous web and method of its manufacture.

1203/Cal/80. M. A. N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Method of optimizing fuel consumption.

1204/Cal/80. Hermann Hemschedt Maschinenfabrik GmbH & Co. Roof-support distancing apparatus.

1205/Cal/80. Union Carbide Corporation. Improved hydroformylation process using stable rhodium catalyst.

1206/Cal/80. Unisearch Limited. Improvements in construction of building materials. (October 24, 1979) (June 13, 1980).

1207/Cal/80. The B. F. Goodrich Company. Improved aluminum-supported copper catalyst compositions for fluid bed hydrocarbon oxyhydrochlorination.

1208/Cal/80. A. S. Johnson, Jr. Apparatus and method for treating an aggregate material with a flowing gas.

1209/Cal/80. Hoechst Aktiengesellschaft. Dyestuff compositions containing acylated alkoxylates of polyhydric aliphatic alcohols.

1210/Cal/80. Texaco Development Corporation. Improved manufacture of ethylene glycol from synthesis gas.

1211/Cal/80. F. Campbell, Jr. Truncated triangular insulator.

1212/Cal/80. F. Campbell, Jr. Interlocking, truncated triangular insulator

25th October, 1980

1213/Cal/80. Cummins Engine Company, Inc. Floating tappet guide plate.

1214/Cal/80. Voest-Alpine Aktiengesellschaft. Device for preventing collision between part of the cutting arm and part of the loading ramp for a cutting machine.

27th October, 1980

1215/Cal/80. M. A. N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Method for injecting fuel into an air-compressing internal combustion engine.

1216/Cal/80. M. A. N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Coal gas treatment apparatus. (July 24, 1980).

1217/Cal/80. Sredneaziatsky Nauchno-Issledovatelsky Institut prirodnoogo Gaza. Method of drilling a productive bed.

28th October, 1980

1218/Cal/80. The Mila Trading Corporation of India Limited. Manufacture of building components from mica and other materials.

1219/Cal/80. Diamond Shamrock Corporation. Removal of metals from solution (October 29, 1979).

1220/Cal/80. Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A. Improved process for the continuous spinning of viscose rayon.

1221/Cal/80. Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A. Improved process for the continuous spinning of viscose rayon.

1222/Cal/80. Snia Viscosa Societa' Nazionale Industria Applicazioni Viscosa S.p.A. Process for the continuous production of viscose rayon yarns having high degree of white.

1223/Cal/80. Voest-Alpine Aktiengesellschaft. Process for sinking of shafts.

1224/Cal/80. Voest-Alpine Aktiengesellschaft. Process for hot briquetting of organic solid materials.

1225/Cal/80. The B. F. Goodrich Company. Suspension polymerization process for making vinyl resins for use in plastisol.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, TOTI ESTATES (3RD FLOOR), LOWER PARL. (W), BOMBAY-400 013.

13th October, 1980

313/BOM/80. Dr. Arora Mohinder Pal Singh. Operation table tilt calculator.

314/BOM/80. S. S. Purbit. A foil printing attachment for printing machine.

14th October 1980

315/BOM/80. Ciba-Geigy of India. Process for the manufacture of Novel Benzothiadiazines.

APPLICATION FOR PATENT FILED AT THE PATENT OFFICE BRANCH, 61, WALLAN ROAD.

MADRAS-600002.

25th October, 1980

192/MAS/80. K. R. Sahadevan. S. D. Board.

#### ALTERATION OF DATE

148191

1147/Cal/78.

Ante dated 7th October, 1976.

148192

600/Cal/79.

Ante-dated the 21st July, 1976.

148193

601/Cal/79.

Ante-dated the 21st July, 1976.

148207

602/Del/79.

Ante dated 7th July, 1978.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classification given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 131A<sup>2</sup>.

148182.

Int.Cl.-E21b 43/00.

## LAYER-Separating DEVICE HYDRAULICALLY ANCHORABLE IN A WELL CASING.

Applicant : KOOLAJ-ES FOLDGAZBANYASZATI IPARI KUTATO LABORATORIUM, OF MARKO UTCA 16, BUDAPEST V, HUNGARY AND ORSZAAGOS KOEOLAJ E&S GAAZIPARI IROESZT, OF SZENT ISTVAN KRT. 11, BUDAPEST 5 HUNGARY.

Inventors : ROBERT HORVATH, RUDOLF LASZLO AND GYUZA SZABO.

Application No. 73/Cal/77 filed January 19, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

A device for separating layers in a well casing comprising : an elongated internal sleeve formed at its upper end with a shoulder and at its lower end with a piston;

a sealing ring surrounding said internal sleeve and abutting against said shoulder, said sealing ring being compressible axially to sealingly engage the interior of said case; a pressure sleeve axially suitable on said inner sleeve below said ring and adapted to bear axially thereon, said pressure sleeve and said inner sleeve being formed with mutually engaging extending ribs limiting relative rotation of said sleeve; a downwardly converging key guide connected to said pressure sleeve by laterally extending threaded pins; a setting sleeve axially shiftable on said inner sleeve and operatively bearing upon said pressure sleeve axially, said setting sleeve being formed with a spacer ring connected to said setting sleeve by shear screws, and upper and lower rows of keys mounted on said spacer ring whereby said upper row cooperates with said key guide; a setting cylinder surrounding said piston and formed with an upwardly converging cylinder cover engaging said setting sleeve and cooperating with said lower row; and upper locking means between said pressure sleeve and said inner sleeve for locking said pressure sleeve against said inner sleeve in a compressed condition of said ring, and lower locking means between said cylinder and said piston for locking same in a maximum upward position of said cylinder cover relative to said piston, said cylinder being pressurizable to initially displace said pressure sleeve axially and compress said sealing ring into engagement with said casing and thereafter to shear said shear screws and effect outward displacement of said upper and lower rows of keys into engagement with said casing.

Comp. Specn. 12 Pages.

Drg. 1 Sheet.

CLASS 158E<sup>2</sup>.

148183.

Int. Cl.-B61f 5, 40.

## RAILROAD CAR TRUCK SIDE FRAME ASSEMBLY.

Applicant : STANDARD CAR TRUCK-COMPANY, OF 332 SOUTH MICHIGAN AVENUE CHICAGO, ILLINOIS 60604, UNITED STATES OF AMERICA.

Inventor : ROBERT LEE BULLOCK.

Application No. 1670/Cal/77 filed December 1, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

A railroad car truck side frame assembly having a window, a bolster extending through said window, said side frame including spaced vertical columns defining the sides of said window, said bolster having lugs projecting from both sides thereof on opposite sides of said columns, a widened area on one side of each vertical column extending away from the side frame, with the opposite side of each column being substantially coplanar with the side frame, the space between lugs on each side of the bolster being substantially greater than the width of said side frame, and being slightly greater than the distance between the outside of said widened area and the opposite side of each vertical column.

Comp. Specn. 11 Pages.

Drg. 1 Sheet.

CLASS 158E<sup>2</sup>.

148184.

Int. Cl.-B61f 5/50.

## A BOLSTER FOR USE IN A STABILIZED RAILBOARD CAR TRUCK.

Applicant : STANDARD CAR TRUCK COMPANY, OF 332 SOUTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60604, UNITED STATES OF AMERICA.

Inventors : ROBERT LEE BULLOCK AND ROBERT PETER GEYER.

Application No. 1678/Cal/77 filed December 2, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims.

A bolster for use in a stabilized railroad car truck, said bolster having a top wall and stabilizer pockets on each side of each end thereof, portions of said bolster adjacent said pockets extending above said top wall, and reinforcing means for said bolster pockets positioned generally at the midpoint of each pocket and generally inside of said bolster.

Comp. Specn. 8 Pages.

Drg. 2 Sheets.

CLASS 150B.

148185.

Int. Cl.-G01b 19/04, 19/12.

## MEASURING GAUGE.

Applicant : TESA S.A., OF RUE BUGNON 38, 1020 RENENS, SWITZERLAND.

Inventor : GEORGES LENDI.

Application No. 818/Cal/77 filed May 31, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims.

A measuring gauge comprising a fixing element adapted to be rigidly fixed on a gauge support, one feeler element equipped with a measuring contact and adapted to be pressed by an elastic member on an object to be measured, at least one guiding element for allowing relative displacement between the fixing element and the feeler element, and a measuring transducer adapted to translate the said relative displacement of the two elements into measurement signals proportional to their displacement from the position on the line of action of the gauge, wherein the fixing element and the feeler element are disposed parallel to the line of action of the gauge opposite

to one another and at the same spacing these two elements both having on their free sides identical fixing members for their connection with a gauge support, or a measuring contact or an identical gauge, so that each of them can thus be used as a feeler element or as a fixing element and wherein the direction of measurement is reversible by a simple rotation of 180° of the feeler around its line of action.

Comp. Specn. 9 Pages. Drg. 1 Sheet.  
CLASS 129G. 148186.  
Int. Cl.-B23b 27/00.

**MACHINE TOOL WITH COUNTERPOSED ROTARY TOOLHEADS CARRYING CROSS-FEED TOOL SLIDES.**

Applicants : KEARNEY & TRECKER CORPORATION, OF 1100 THEODORE TRECKER WAY, WEST ALLIS, WISCONSIN 54214, UNITED STATES OF AMERICA.

Inventors : ERVIN JOHN KIELMA, FRANK JOSEPH SCHALK, AND KENNETH JOHN MERKEL.

Application No. 1297/Cal/77 filed August 19, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

A machine tool for cutting accurate circular surfaces in one or more ends of a relatively large workpiece comprising a bed, a first toolhead slidably mounted on said bed for linear movement along a first axis and journaled for rotation about said first axis, fixture means for holding a workpiece in a fixed position so that it can be operated upon by said toolhead, the workpiece having a first portion to be machined and a second portion to be machined, means for rotating said first toolhead, means for moving said first toolhead along said first axis while it is rotating for operating upon the workpiece, a first tool slide slidably mounted on said first tool-head for cross-feed movement along a second axis which is transverse to said first axis, first cross-feed means for moving said first tool slide along said second axis while said first toolhead is rotating, and a first toolholder on said first tool slide for holding a first tool for rotation in an orbit to perform a machining operation on a portion of the workpiece, characterized by a second toolhead slidably mounted on said bed for linear movement along said first axis on the side of said fixture opposite the side on which said first toolhead is mounted so that it can also operate on the workpiece, said second toolhead being journaled for rotation about said first axis, means for rotating said second toolhead, means for moving said second toolhead along said first axis while it is rotating, a second tool slide slidably mounted on said second toolhead for cross-feed movement along a third axis which is transverse to said first axis, second cross-feed movement for moving said second tool slide along said third axis while said second toolhead is rotating, a second toolholder on said second tool slide for holding a second tool for rotation in an orbit to perform a machining operation on a portion of the workpiece, means for rotating said fixture so that both of said portions of the workpiece can be presented to either of said two toolheads for performing machining operations on both of said portions at the same time, and a controller for independently regulating the rotation of both of said toolheads, the axial feeding movement of both of said toolheads along said first axis, and the cross-feed movement of said first and second tool slides along said second and third axes, respectively, to perform machining operations on said first and second portions of said workpiece.

Comp. Specn. 25 Pages. Drg. 5 Sheets.  
CLASS 24D<sup>2</sup>. 148187.  
Int. Cl.-B61h 13/00.

**BRAKE ACCELERATOR FOR DRAWING-OFF AIR FROM THE BRAKE LINE OF AN AIR BRAKE SYSTEM FOR RAILWAY VEHICLES.**

Applicant : Kinorr-BREMSE G.M.B.H., D-8 MUNCHEN 40, MOOSACHER STR. 80, POSTFACH 401060, FEDERAL REPUBLIC OF GERMANY.

Inventors : JOSEF IIINTNER AND PETER PICK.

Application No. 1314/Cal/77 filed August 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A brake accelerator for drawing off air from the brake line of an air brake system for railway vehicles and comprising a first piston having one side subjected to air pressure in a brake line, means including an expansion chamber connected by a throttle opening to the other side of said first piston for subjecting said other side to a control pressure opposing the brake line pressure, there being a throttle opening between said one side of the first piston and the connection from said expansion chamber to said other side of the first piston, first passage means having a second throttle opening therein for connecting said one side of the first piston to the atmosphere, a first valve closing said first passage means, means on said first piston for opening said first valve when the control pressure on the other side of the first piston predominates over the brake line pressure, on said one side of the piston, second passage means including a third throttle opening for connecting said expansion chamber to the atmosphere, a second valve closing said second passage means and spring means urging said second valve into the closed position, a pressure accumulation chamber in said first passage means between said second throttle opening and said one side of the first piston, and second piston in said pressure accumulation chamber and having means thereon for actuating said second valve, said second piston acted upon by pressure in said pressure accumulation chamber in a direction to open said valve against the closing force of said spring means.

Comp. Specn. 13 Pages. Drg. 1 Sheet.

CLASS 50F & D. 148188.  
Int. Cl.-F25d 1/00.

**COOLER FOR METALLURGICAL FURNACE.**

Applicant : VSSESOUJZNY NAUCHNO-ISSLED OVALSKY I PROEKTNY INSTITUT PO OCHISTKE TEKHNOLOGICHESKIKH GAZOV, STOCHNYKH VOD I ISPOLZOVAIUI VTORICHNYKH ENERGORESURSOV PREDPRIATY CHERNOL METALLURGI "VNIPICHER-METENERG OCHISTKA" KHARKOV, PROSPEKT LENINA, 9, USSR.

Inventors : VALENTIN, NIKOLAEVICH BINEVSKY, ANATOLY STEPANOVICH GORBIK, LEV DMITRIEVICH GRITSUK AND JURY IVANOVICH TSELUIKO.

Application No. 1456/Cal/77 filed September 28, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A cooler for metallurgical furnace comprising a metal plate having longitudinally built thereinto at least two pipes with end portions thereof bent aside in the same direction and extending beyond said plate, characterized in that it is provided with equal number of pipes (6) disposed outside the plate (1), each of said pipes being disposed in a chamber (7) formed with an inlet pipe and an outlet pipe through which a coolant is fed to and discharged from said chamber (7), and in that each pipe (2) built into the plate (1) and the pipe (6) disposed in the chamber (7) form, when connected with each other, a closed annular channel (12) for the coolant circulation, as described herein.

Comp. Specn. 12 Pages. Drg. 1 Sheet.

Class 32F<sub>2</sub>c. 148189.  
Int. Cl.-C07c 103/08.

**PROCESS FOR THE PREPARATION OF N-ALKYL-SUBSTITUTED CARBOXYLIC ACID AMIDES.**

Applicant : BAYER AKTIENGESELLSCHAFT, OF LEVERKUSEN, FEDERAL REPUBLIC OF GERMANY.

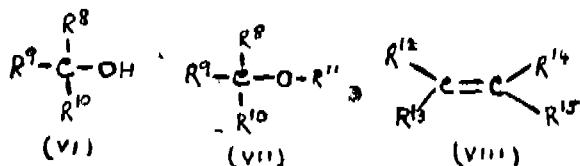
Inventors : DIETER ARLT AND FRANZ-GERHARD BEHLAU.

Application No. 382/Del/78 filed May 19, 1978.

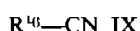
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 4 Claims.

Process for the preparation of N-alkyl-substituted carboxylic acid amides by reacting a component which forms carbanium ions selected from secondary and tertiary alcohols, esters and olefins of the formulae VI, VII and VIII.



respectively wherein  $R^8$  denotes hydrogen, alkyl, aralkyl or aryl and  $R^9$  and  $R^{10}$  are identical or different and denote alkyl or aralkyl;  $R^{11}$  denotes an acyl radical of an inorganic or organic acid;  $R^{12}$ ,  $R^{13}$  and  $R^{14}$  are identical or different and denote hydrogen, alkyl, aralkyl or aryl and  $R^{15}$  denotes alkyl, aralkyl or aryl with a nitrile of the formula IX.



wherein  $R^{16}$  denotes hydrogen, alkyl, alkenyl, aralkyl or aryl in the presence of acids characterised in that the reaction mixture containing the N-substituted carboxylic acid amide so obtained is separated by distillation, the reaction being carried out in the presence of acid of the formula I.



wherein Y represents an acyl radical of an acid from the series of phosphoric acids in the 5th oxidation stage, of a phosphoric acid monoester or diester and sulphuric acid monoester, of an aliphatic or aromatic phosphonic acid, of an aliphatic or aromatic sulphonate acid or of an aliphatic carboxylic acid with a  $pK$  value of greater than 1, said acid being inert under the distillation conditions.

CLASS 321 &amp; 55D.

148190.

Int. Cl.-A01n 9/00, C07c 69/00.

## A METHOD FOR THE PREPARATION OF INSECTICIDAL AND ACARICIDAL AGENTS.

Applicant : AMERICAN CYANAMID COMPANY, AT WAYNE, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : GERALD BERKELHAMMER AND VENKATARAMAN KAMESWARAN.

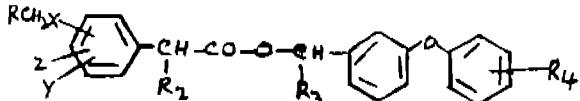
Application No. 466/Cal/78 filed April 28, 1978.

Addition to No. 1654/Cal/77.

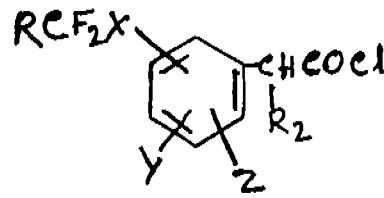
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

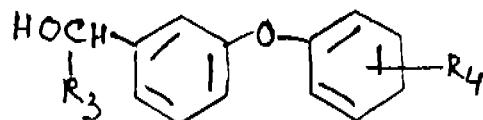
A method for preparing a compound of the formula I.



wherein  $RCF_2X$ , Y and Z, are all *meta* or *para* to the carbon to which the alkanoic acid ester group is attached, and X is O, S, SO or  $SO_2$ ; Y and Z are each H, Cl, F, Br,  $NO_2$ ,  $CH_3$  or  $OCH_3$ ; R is H, F, Cl,  $CHF_2$  or  $CF_3$ ;  $R_2$  is ethyl, *n*-propyl, isopropyl, isopropenyl or *t*-butyl;  $R_3$  is H, CN, or  $-C\equiv CH$ , and  $R_4$  is H, F, Cl,  $CH_3$  or  $OCH_3$  provided that at least one of Z, Y and  $R_4$  are other than hydrogen which comprises reacting compound of formula 2.



with compound of formula 3.

in the presence of pyridine, wherein R, X, Y, Z,  $R_2$ ,  $R_3$  and  $R_4$  are as defined herein above.

Comp. Specn. 36 Pages.

Drg. 12 Sheets.

CLASS 107H.

148191.

Int. Cl.-F02m 45/00.

## FUEL INJECTION PUMP.

Applicant : STANADYNE INC., OF 92, DEERFIELD ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventors : DANIEL EDWIN SALZGBER, ROBERT RAUFEISEN AND CHARLES WADE DAVIS.

Application No. 1147/Cal/78 filed October 24, 1978.

Division of Application No. 1843/Cal/76 filed October 7, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A fuel injection pump for an associated engine, pump plunger means providing sequential pumping strokes, means for changing the timing of the pumping strokes comprising a first cylinder, an advance piston movable in said first cylinder, means interconnecting said advance piston with said pump plunger means to advance and to retard the relative timing of the pumping strokes; a first source of fluid having a pressure correlated with engine speed, a second source of fluid having a pressure correlated with a variable engine operating condition other than speed, means operatively connected to said advance piston and responsive to said first fluid pressure and said second fluid pressure for moving said advance piston to change the relative timing of pumping strokes, said advance piston moving means comprising a servo mechanism including a servo piston for controlling the flow of an operating fluid to position said advance piston, and a servo spring, said first fluid pressure being connected to act on said servo piston in opposition to said servo spring to establish an equilibrium position of said advance piston; a second cylinder, a spring holder piston movable in said second cylinder, said servo spring being mounted for movement with said spring holder piston to vary the reference position of said servo spring thereby to vary the equilibrium positioning of said advance piston, means biasing said spring holder piston to a position commensurate with advanced relative timing of pumping, and said second fluid pressure being connected to said second cylinder to act on said spring holder piston in opposition to said bias means, said second fluid pressure being operative to overcome said bias means to move said servo spring holder toward a position commensurate with a relatively retarded timing thereby to modify the timing control of said first fluid pressure.

Comp. Specn. 29 Pages.

Drg. 2 Sheets.

CLASS 90F.

148192.

Int. Cl.-C03c 3/00.

## A BUSHING ASSEMBLY FOR THE DRAWING OF GLASS FIBERS.

Applicant : NITTO BOSEKI CO., LTD., 1, AZA HIGASHI GONOME, FUKUSHIMA-SHI, JAPAN.

Inventor : CHARLES HALEY COGGIN, JR.

Application No. 600/Cal/79 filed June 11, 1979.

Division of Application No. 1307/Cal/76 filed July 21, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**12 Claims.**

A bushing assembly for the drawing of glass fibers, said assembly comprising : a refractory block having upper and lower surfaces and a chamber extending through between said surfaces an orifice plate secured over and covering the end of said chamber which opens through the lower surface of the block, said plate having a perforated drawing area of a size less than the area of the chamber which opens through the lower surface of the block whereby an unperforated collection area is formed by said plate to at least one side of the drawing area thereof a lining covering the interior of the chamber in the block and joined at the lower end thereof to the orifice plate; and, a deflector plate secured to said lining in spaced relationship to the orifice plate, between the upper and lower surfaces of the refractory block, said plate being disposed so as to intercept fluid flowing into the upper end of the chamber in the block and deflect such fluid toward the collection area formed by the orifice plate.

Comp. Specn. 22 Pages.

Drg. 3 Sheets.

CLASS 90F.

148193.

Int. Cl.-C03c 3/00.

**AN ASSEMBLY FOR THE DRAWING OF GLASS FIBERS.**

Applicant : NITTO BOSEKI CO., LTD., 1, AZA HIGASHI GONOME, FUKUSHIMA-SHI, JAPAN.

Inventor : CHARLES HALEY COGGIN, JR.

Application No. 601/Cal/79 filed June 11, 1979.

Division of Application No. 1307/Cal/76 filed July 21, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**11 Claims.**

An assembly for the drawing of glass fibers, said assembly comprising : a flow block having an interior formed by a layer of glass corrosion resistant refractory composition and an exterior formed by a layer of highly thermal shock resistant material juxtaposed to the underside of said interior, said block having a flow passage therein extending through both said interior and said exterior; a platinum lining covering the flow passage; a bushing frame disposed beneath the flow block; and a bushing assembly including a bushing block removably supported on said bushing frame in juxtaposition to the underside of the exterior of the flow block, said bushing block being composed of refractory material and having a chamber therein and opening through the upper and lower surfaces thereof, said chamber being in aligned fluid communication with the flow passage in the flow block and lined with a platinum liner, and an orifice plate secured over the end of the chamber opening through the lower surface of the bushing block.

Comp. Specn. 22 Pages.

Drg. 3 Sheets.

CLASS 32 F3.

148194.

Int. Cl. B01 d-15/04+C07c—47/12.

**"A PROCESS FOR THE PURIFICATION OF CRUDE GLYOXAL BY ION EXCHANGE, TECHNIQUE".**

Applicants : ION EXCHANGE (INDIA) LIMITED, TIECICON HOUSE, DR. E. MOSES ROAD, BOMBAY-400 011, INDIA.

Inventors : 1. ARVIND MANOHAR KULKARNI (2) SUGATA PANDURANG SIVANAND.

Application No. 312/Bom/77 filed Oct. 24, 1977.

Complete left after provisional specification 24 Jan. 1979.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office, Bombay Branch.

**5 Claims.—No drawings.**

A process for the purification of crude Glyoxal having impurities (such as herein described) comprising in series, the steps of : passing the crude Glyoxal through a strongly or weakly basic anion exchange resin in acetate form (stage 1) ; distilling off under vacuum the acetic acid formed (stage 2) ; diluting the glyoxal with water (stage 3) so as to reduce the concentrations of the cation impurities and residual free acidity ; passing the dilute glyoxal (stage 4) through (a) a strongly or weakly acidic cations exchange resins in H<sup>+</sup> form followed by (b) a weakly basic anion exchange resin in bicarbonate form and concentrating the product in known manner to obtain purified glyoxal.

Provisional specification : 5 pages

Complete specification : 7 pages

No Drawings.

CLASS 172D.

148195.

Int. Cl.-D01h 1/04.

**A FLYER FOR YARN OR THREAD WINDING MACHINES.**

Applicant : C. EUGEN MAIER METALLVERARBEITUNG GMBH, OF FRIEDRICHST-STR. 41, D-7012, FELIBACH, FEDERAL REPUBLIC OF GERMANY.

Inventor : KURT GALLINA.

Application No. 879/Cal/77 filed June 13, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**8 Claims.**

A flyer for yarn to thread winding machine having two arms in which at least one of said arms is hollow and consists of a steel tube for guiding a thread or yarn and is surrounded throughout its length by an aluminium or other light metal casing characterized in that the steel tube projects into the hub of the flyer and in that the outlet of the steel tube is made concentric with the axis of rotation of the flyer, said axis being also the same as the vertical axis of the middle piece which is the bearing support.

Comp. Specn. 9 Pages.

Drg. 1 Sheet.

CLASS 24D.

148196.

Int. Cl.-B61h 11/10.

**TWO PRESSURE BRAKE CONTROL VALVE FOR A COMPRESSED AIR BRAKE ACTION INDIRECTLY AND RELEASING IN SINGLE STATE ESPECIALLY FOR RAIL VEHICLES.**

Applicant : KNORR-BREMSE GMBH., OF D-8, MUNICH 40 POSTFACH 401060, MOOSACHER STRASSE 80, FEDERAL REPUBLIC OF GERMANY.

Inventor : PETER PICK REGINA-ULLMANN-STR.

Application No. 1174/Cal/77 filed July 30, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**11 Claims.**

Two-pressure brake control valve for a compressed-air brake acting indirectly and releasing in single stage, especially for rail vehicle with a service brake part for the control of service decelerations and an emergency brake part for the control of rapid decelerations, where the service brake part comprises a main control member, which as a function of pressure drop per unit of time in a brake-pressure lead below an adjusted value controls a valve for admitting from an auxiliary air container on at least one dashpot, and the emergency brake part contains a further main control member, which in a rapid deceleration with a pressure drop per unit of time in the brake-pressure lead exceeding the adjusted value controls a valve for the additional admission of air from an emergency brake container on the dashpot up to a pressure greatly exceeding the minimum dashpot pressure in a service deceleration characterized thus, that in the main control member in the emergency brake part is incorporated an auxiliary member, which, when the main control member is nonoperative, monitors a service

brake acceleration control valve in the emergency brake part as a function of the pressure changes in the brake-pressure lead in a service deceleration, and wherein the main-and the auxiliary members consist in each of a piston and auxiliary piston arranged in a displaceable manner between two retainers on the main piston.

Comp. Specn. 22 Pages.

Drg. 1 Sheet.

CLASS 55E<sup>a</sup> & E<sup>b</sup>.

148197.

Int. Cl.-C07c 103/19.

#### PROCESS FOR PREPARING A STABLE OXYTETRACYCLINE ANTIBIOTIC COMPOSITION.

Applicant : PFIZER INC., OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors: WILLIAM WELLESLEY ARMSTRONG.

Application No. 234/Del/78 filed March 30, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims—No drawings.

A process for preparing a stable high potency antibiotic composition which comprises reacting from 5 to 30% w/v of the composition of oxytetracycline or a pharmaceutically-acceptable acid addition salt thereof with from 0.8 to 1.1 molar proportions based on the oxytetracycline of a soluble, pharmaceutically-acceptable magnesium compound in an aqueous solvent comprising water and a co-solvent wherein the co-solvent is caprolactam or 2-piperidone; and adjusting the pH, if necessary, to a value of from 7.5 to 9.5 to form a magnesium/oxytetracycline chelate in solution, the caprolactam or 2-piperidone being employed at a concentration of from 30 to 60% w/v of the composition.

Comp. Specn. 15 Pages.

Drgs. Nil.

CLASS 32B.

148198.

Int. Cl. C07b—1/00 + C07 C—5/00.

#### "A PROCESS FOR THE SEMI HYDROGENATION OF ACETYLENES TO OLEFINS".

Applicants : M/S. CAMPHOR & ALLIED PRODUCTS LIMITED, AT JEHANGIR BUILDING, 133 MAHATMA GANDHI ROAD, BOMBAY-400 023, MAHARASHTRA, INDIA.

Inventor : 1. DR. JANAKIRAM RAJARAM, 2. DR. ANUBHAV PARKASH SINGH NARULA, 3. DR. HARMANDER PAL SINGH CHAWLA, AND 4. DR. SUKH DEV.

Application No. 340/BOM/78. Filed November 25, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

12 Claims—No Drawings.

A process for the semihydrogenation of acetylenes to olefins by hydrogenation of acetylenes such as herein described using palladium on calcium carbonate as catalyst characterised in that the palladium on calcium carbonate catalyst is poisoned with lead acetate and one or more of metal salts other than lead metal salt such as herein described and in presence of a secondary poison such as herein described and in presence of a solvent such as herein described at temperature and pressure as herein described.

Comp. Specn. 11 Pages.

Drawing—Nil.

CLASS 208.

148199.

Int. Cl.-B41j 3/04, B43k 5/00, 7/00, 8/00.

#### A MULTIPLE UNIT WRITING INSTRUMENT.

Applicant : CHROMATIC CORPORATION, 175 PEARL STREET, BROOKLYN, NEW YORK 11201, UNITED STATES OF AMERICA.

Inventor : WALTER CARL GANZ.

Application No. 349/Del/78 filed May 9, 1978.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

18 Claims.

A multiple unit writing instrument comprising an elongated generally tubular body having an opening at one end, a pair of writing units having writing means at one end disposed within said tubular body with said writing means facing said body opening, said writing units adapted for reciprocal motion within said body, a cam disposed within said body having a surface with a lowermost portion, follower means mounted on each of said writing units, each of said follower means abutting said cam surface on an opposite side of and about an arc of less than 180° from said lowermost portion of said cam surface, and a portion attached to said body for alternatively rotating said cam and its surface for less than 180° towards each of said follower means thereby engaging said lowermost portion of said cam surface with said corresponding follower means and urging said follower means and its corresponding writing unit downwardly towards said body opening and into operative writing position.

Comp. Specn. 21 Pages.

Drg. 4 Sheets.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

CLASS 126A.

148200.

Int. Cl. G01j 5/34.

#### A PNEUMATIC RADIATION DETECTOR.

Applicants : HARTMAN & BARUN AKTIENGESELLSCHAFT OF GRAFSTRASSE 97.6000 FRANKFURT/MAIN, FEDERAL REPUBLIC OF GERMANY, A GERMAN BODY CORPORATE.

Inventor : JOACHIM STAALS.

Application No. 515/DEL/78 filed on 10th July, 1978.

Convention Date : 20th December, 1977 (U.K./53003/77).

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.

A pneumatic radiation detector, more particularly for a double-beam infra-red gas analyser in which a modulation device chops up the radiation in two beam paths in antiphase and the detector for each beam path in one block, has two successive detector chambers filled with radiation-absorbent gas and provided with windows permitting the passage of radiation to which detection chambers is connected a further chamber arranged intermediately between the detector chambers and having a membrane capacitor located therein, said membrane capacitor dividing up the membrane capacitor chamber into two chamber parts and converting the pressure difference between the chamber parts into an electrical signal, characterized in that the two detector chambers (7, 9) acted upon initially by radiation in each beam path and the two subsequent detector chambers (8, 10) are in connection with one of the chamber parts (13 or 16) of the membrane capacitor chamber; and that all of the chambers or chamber parts (7, 8, 9, 10, 13, 16) and the connections (14, 15, 17, 18) conducting gas are so dimensioned and arranged that the centre of mass of the gas in the detector chambers (7, 9) acted upon initially by radiation and in the subsequent chamber part (13) of the membrane capacitor chamber (13) coincides with the centre of mass of the gas in the detector chambers acted upon last by the radiation and in the chamber part (16) of the membrane capacitor chamber (11)-connected thereon.

Complete Specification 8 pages and Drawings one Sheet.

CLASS 32F<sup>a</sup>(a), 32F<sup>a</sup>(b) and 40B.

148201.

Int. Clas. C07c 47/00, 57/00 and G01j 11/00.

#### PROCESS FOR THE OXIDATION OF OLEFINS.

Applicant : THE STANDARD OIL COMPANY, AN OHIO CORPORATION, MIDLAND BUILDING, CLEVELAND, OHIO 44115, UNITED STATES OF AMERICA.

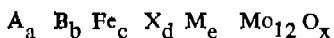
Inventors : ANDREW TYTUS GUTTMANN AND ROBERT KARL GRASSELLI.

Application No. 516/DEL/1978 filed on 11th July, 1978.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 19 Claims—No drawings.

In a process for the preparation of unsaturated aldehydes and acids from propylene or isobutylene by the vapor phase oxidation of propylene or isobutylene with molecular oxygen at a temperature of about 200° to 600°C in the presence of a catalyst the improvement comprising using as the catalyst a catalyst of the formula



wherein A is alkali metal, thallium, silver or mixtures thereof;

wherein B is cobalt, nickel, zinc, cadmium, beryllium, calcium, strontium, barium, radium or mixtures thereof;

X is bismuth, tellurium or mixtures thereof; and

wherein M is one or more of the following :

(1) a two-or-more-element system selected from the group consisting of Cr + W, Ge + W, Mn + Sb, Cr + P, Ge + P, Cu + W, Cu + Sn, Mn + Cr, Pr + W, Ce + W, Sn + Mn, Mn + Ge or combinations thereof;

(2) Cr, Sb, Ce, Pb, Ge B, Sn, Cu or combinations thereof; and

(3) a two-or-more-element system selected from the group consisting of Mg + P, Mg + Cu, Mg + Cr, Mg + Cr + W, Mg + W, Mg + Sn or combinations thereof; and further

wherein

$$0 \leq a \leq 5, 0 \leq b \leq 20, 0 \leq c \leq 20, \\ 0 \leq d \leq 20, 0.01 \leq e \leq 12, \text{ and}$$

x is a number such that the valence requirements for the other elements for oxygen are satisfied,

and wherein the minimum amount of each element in M when M is a combination of two or more elements is 1 atom per cent based on the number of atoms in component M.

Complete Specification 15 pages. Drawings Nil.

CLASS 108C. 148202.  
Int. Cl. C21c 1/00, 7/00

#### AN IMPROVED PROCESS FOR DESULPHURISATION OF FERROUS MELTS IN THE IRON AND STEEL INDUSTRY.

Applicants : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001.

Inventors : VISHWANATH ANANT ALTEKAR, DHRUBA IYOTI CHAKRABORTI AND RAMENDRA NATH GUIN.

Application No. 529/Del/78 filed on July 19, 1978.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 4 Claims—No drawings.

An improved process for desulphurisation of ferrous melts in the iron and steel industry, characterised in reacting the ferrous melt with an additive mixture consisting of aluminium, lime and/or magnesia.

Complete Specification 7 pages.

CLASS 6B. 148203.  
Int. classification—F23j-11/12.

#### IMPROVEMENTS IN OR RELATING TO FUME EXTRACTION.

Applicants : LODGE-COTTRELL LIMITED, A BRITISH COMPANY OF GEORGE STREET PARADE, BIRMINGHAM B3 1QQ ENGLAND.

Inventor : CHARLES GRAHAM SMITH, KENNETH RAY PARKER AND JOHN GORDON WYATT.

Application No. 540/Del/78 filed on 21st July, 1978.

Convention date Aug. 11, 1977 (33699/77) U.K. and April 26, 1978 (33699/77) U.K.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 10 Claims.

A fume extraction assembly which comprises (a) an elevated canopy for collecting fume and shaped to have an apex, and (b) apertured elongated outlet means offset from the apex of the canopy for extracting collected fume from the canopy; the effective apertured area of the said outlet means varying in a horizontal direction to compensate for a tendency to uncontrolled extraction rates along said outlet means.

Complete 10 pages, Drawing sheets 2.

CLASS 6B. 148204.  
Int. Cl. B01d 49/00.

#### IMPROVEMENTS IN OR RELATING TO GAS TREATMENT PLANT.

Applicants : LODGE-COTTRELL LIMITED, A BRITISH COMPANY OF GEORGE STREET PARADE, BIRMINGHAM B3 1QQ, ENGLAND.

Inventor : JOHN GORDON WYATT.

Application No. 580/Del/78 filed on August 4, 1978.

Convention date : 6th September 77 & 5th May 1978 (U.K.).

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 26 Claims.

Gas treatment plant comprising (a) gas treatment means having an extended inlet portion, (b) a conduit arranged to conduct gas to the inlet portion and being at an angle to the direction of gas flow through the gas treatment means a first conduit wall portion extending to a region of the inlet portion which is upstream with respect to gas flow along the conduit, and a second conduit wall portion extending at an acute angle to said direction of flow to a region of the inlet portion which is downstream with respect to the gas flow along the conduit, and (c) spoiler means comprising a plurality of projections on the second wall portion adjacent to the inlet portion, which projections are arranged to enhance even distribution of the gas flow across the inlet portion in the operation of the plant.

Complete Specification 17 pages and Drawing 2 Sheets.

CLASS 40F, 140C, 37A. 148205.  
Int. Cl. B01d-21/26, G01n-1/28, 21/00.

#### DEVICE FOR DIVIDING A SAMPLE OF LIQUID INTO A PLURALITY OF CALIBRATED PORTIONS FOR ANALYSIS.

Applicants & Inventor : JEAN GUIGAN FRENCH CITIZEN OF, 9-RUE JEAN MERMOZ, 75008 PARIS, FRANCE.

Application No. 581/Del/78 filed on 4th August, 1978.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 20 Claims.

A device for dividing a sample of liquid into a plurality of calibrated portions for analysis, said device comprising: a central receptacle, a plurality of calibrated peripheral cells on the periphery of the central receptacle, each cell having two parallel walls for an optical measurement and connected to the central receptacle receiving said sample, each of said cells containing a reagent for use in the analysis, said device further comprising for each cell, means for conveying the

sample of liquid from the receptacle to said cell to fill it completely by centrifuging and escape means for the air contained in said cell to said receptacle, said conveying means comprising an inlet orifice in each cell, and escape means comprising an orifice nearer to the axis of rotation than said inlet orifice and leading into said receptacle, and said orifices being of such a size as to retain the liquid contained in each cell after complete filling thereof and after centrifuging has ceased.

Complete Specification 11 pages and Drawing 4 Sheets.

**CLASS 24D-(1).**

14820\*

Int. Cl.-B60t—11/16.

**HYDRAULIC MASTER CYLINDER FOR A HYDRAULIC BRAKING SYSTEM.**

Applicants : AUTOMOTIVE PRODUCTS LIMITED, OF TACKBROOK ROAD, LEAMINGTON SPA, WARWICKSHIRE CV 31 3ER, ENGLAND.

Inventor . ALASTAIR JOHN YOUNG.

Application No. 639/Del/78 filed on 29th August, 1978.

Appropriate Office for opposition Proceedings (Rule - Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

A hydraulic master cylinder for a hydraulic braking system comprising a stepped piston slideable in a stepped bore, a supply port for connection to a tank of hydraulic fluid, an outlet port for connection to a brake actuator, a pressurising chamber connected to the supply and outlet ports such that movement of the stepped piston in a brake-applying direction shuts off communication from the pressurising chamber to the supply port and reduces the volume of the pressurising chamber to create a brake-applying pressure at the outlet port, a control chamber connected to the supply port such that movement of the stepped piston in a brake-applying direction shuts off communication from the control chamber to the supply port and increases the volume of the control chamber, first non-return valve means allowing communication from the control chamber to the pressurising chamber, second non-return valve means allowing communication from the supply port to the control chamber and a metering valve comprising a stepped plunger slideable in a bore in the stepped piston and biased in one direction by the action of pressure in the pressurising chamber acting on a relatively large piston area of the plunger against the preloaded spring and the action of pressure in the control chamber acting on a relatively small piston area of the plunger biasing the plunger in the opposite direction, characterised in that the metering valve plunger has an axial bore which is normally closed by a closure member but which is opened by restricting movement of the closure member with the plunger in said one direction to allow hydraulic fluid to pass from the pressurising chamber to the control chamber through said axial bore, the arrangement being such that pressure in the control chamber remains at tank pressure by communication through the second non-return valve means up to a point when the metering valve becomes operative to allow controlled communication from the pressurising chamber to the control chamber whereupon the pressure in the control chamber increases with increasing pressure in the pressurising chamber and at a higher rate until becoming equal to the pressure in the pressurising chamber.

Complete Specification 13 pages and Drawings 1 sheet

**CLASS 32F.2.C**

148207.

Int. Cl. C.07 C. 121/32

**IMPROVEMENT IN THE PROCESS FOR THE PREPARATION OF ACRIMONITRILE OR METHACRYLONITRILE.**

Applicants : THE STANDARD OIL COMPANY, AN OHIO CORPORATION, HAVING A PLACE OF BUSINESS AT MIDLAND BUILDING, CLEVELAND, OHIO 44115, USA.

Inventors : ROBERT KERI GRASSELLI, MARIA STRADA FRIEDRICH, DEV DHARAJ SURESH AND DAVID ALAN ORNDOFF.

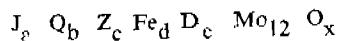
Application No. 602/Del/79 filed on August 23, 1979.

Division of Patent Application No. 507/Del/78 filed on 7/7/1978

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

23 Claims—No drawings.

A process for the preparation of acrylonitrile or methacrylonitrile by the reaction of propylene or isobutylene, molecular oxygen and ammonia at a temperature of about 200°C to 600°C in the presence of a catalyst, characterised in that the catalyst used is of the formula :



wherein J is an alkali metal, thallium silver or mixture thereof;

Q is Co, Ni, Zn, Cd, Be, Mg, Cr, Sr, Ba, Ra or mixtures thereof;

Z is a two-or-more element system comprising Ge + Sb, Cu + W, Cu + Sn, Ce + W, Pr + Mn, Sn + Mn, Mn + W, W + Sb, Cr + Sn, Ge + Sn, Sb + Sn, W + P, Cr + Cu, Mn + Cu, Sb + Cu, Mn + P or mixtures thereof with the proviso that, said catalyst is free of Tl when Z is Mn + I ;

D is Bir or Te ; and

where in

$$0 \leq a \leq 5 ;$$

$$0 \leq b \leq 20 ;$$

$$0 \leq c \leq 20 ;$$

$$0 \leq d \leq 20 ;$$

$$0 \leq e \leq 20 ; \text{ and}$$

x is a value such that the valence requirement of the elements in the catalyst for oxygen are satisfied; each element in said two or more element system being present in an amount of at least 1 atom percent based on the atoms in the system.

Complete Specification 12 pages and Drawing—Sheets.

**PATENTS SEALED**

146282 146297 146298 146874 147030 147041 147064 147089  
147098 147102 147112 147121 147124 147131 147141 147146  
147153 147154 147158 147164 147200 147241

(ELECTRICAL LIST NO. I)

## COMMERCIAL WORKING OF PATENTED INVENTION

The following Patents in the field of Electrical Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar year, 1979, generally on account of want of requests for licences to work the patented inventions.

Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

S. No.	Patent No.	Date of Patent	Name and address of Patentees	Title of Invention
1	2	3	4	5
1.	98973	12-04-1965	N.V. PHILIPS' GLEOILAMPENFABRIEKEN, Emasingel, Eindhoven, The Netherlands.	Welding wires for electric arc welding of steel in a protective gas atmosphere.
2.	99007	13-04-1965	Do.	Core wires for electric arc welding.
3.	99243	28-04-1965	Do.	Semi conductor device.
4.	100703	20-07-1965	Do.	Circuit arrangement for stabilizing variations, in temperature and supply voltage.
5.	101571	14-09-1965	Do.	Semi conductor device and circuit utilising such device.
6.	105108	04-05-1965	F. L. SMIDTH AND CO., A/S, 77, Vigerslev Alle, Copenhagen-Valby, Denmark.	Apparatus for transferring data from rotary bodies.
7.	107121	19-09-1966	N. V. PHILIPS GF, Emmasingel, Eindhoven, Netherlands.	Electron resources for an electron gun comprising a cathode and a cap shaped control electrode.
8.	107223	27-09-1966	Do.	High voltage transistors.
9.	107579	18-10-1966	Do.	Sodium vapour discharge lamps.
10.	108010	17-11-1966	Do.	Circuit arrangement for receiving electric signals.
11.	108972	21-01-1967	Do.	Manufacturing the semiconductor device embedded in a moulded insulating protective envelop.
12.	109770	17-03-1967	Do.	Semi-conductor device.
13.	109922	27-03-1967	SCHENECTADY CHEMICALS INC., Schenectady, New York, U.S.A.	Dual-coated electrical conductor.
14.	110127	07-04-1967	N. V. PHILIPS GF, The Netherlands.	Semi-conductor device and circuit arrangement comprising a semiconductor device.
15.	112588	30-09-1967	Do.	Semi-conductor device.
16.	112727	09-10-1967	Do.	Circuit for transferring charge between two capacitors.
17.	112813	18-10-1967	Do.	Semi conductor device.
18.	113560	13-12-1966	N. V. PHILIPS GF, The Netherlands.	Insulated gate field effect transistor.
19.	114075	16-11-1968	Do.	Elongate high pressure mercury vapour discharge lamp.
20.	114574	16-02-1968	Do.	Electric discharge lamp comprising container of densely sintered aluminium oxide.
21.	115357	10-04-1968	Do.	Semi conductor device.
22.	115677	30-04-1968	Do.	Semi conductor device comprising an insulated gate field effect transistor.
23.	116060	26-05-1967	N. V. PHILIPS GF, Netherlands.	Semi conductor device.
24.	116322	11-06-1968	Do.	Method of severing semiconductor wafer.
25.	117285	18-08-1967	Do.	Insulated gatefield effect transistors.
26.	117568	04-09-1968	Do.	Hall Element.
27.	119356	09-01-1969	Do.	Resilient suspension member for securing a colour selection electrode in a glass envelope of a cathode ray tube for displaying coloured Television images.
28.	120253	11-03-1968	Do.	Semi conductor devices.
29.	120527	24-03-1969	Do.	Integrated capacitor memory.
30.	120774	07-04-1969	Do.	Anti implosion clamping and aromatic envelop of a Television picture tube and Television picture tube so manufactured.
31.	121008	21-04-1969	Do.	Capacitor charge transferring device.
32.	121892	18-06-1969	Do.	Semi conductor device.
33.	121893	18-06-1969	Do.	Manufacturing a semi conductor device.
34.	122154	07-07-1969	Do.	Semi conductor Device.

1	2	3	4	5
35.	122175	08-07-1969	MITSUBISHI DENKI KABUSHIKI KAISHA, 12, Marunouchi-2-Chome, Chiyoda, ku, Tokyo, Japan.	System for controlling D.C. Power.
36.	122255	14-07-1969	N. V. PHILIPS' GF, Netherlands.	Colour television picture tube having a rectangular colour selection electrode.
37.	122798	18-08-1969	MITSUBISHI DENKI KABUSHIKI KAISHA, No. 12, Marunouchi, 2-chome, Chiyoda-Ku, Tokyo, Japan.	System for controlling, D.C. Power.
38.	124065	19-11-1968	N. V. PHILIPS' GF, Netherlands.	Semi conductor device.
39.	124626	29-12-1969	HOWSON-ALGRAPHY LIMITED, Murray Road, St. Paul's Cray, Croftington, Kent, England.	Positive active light sensitive plates.
40.	124820	13-01-1969	N. V. PHILIPS' GF, Netherlands.	Switch-box for a railway switch.
41.	125555	03-03-1970	SIEMENS A.G., Berlin and Munich, West Germany.	Component assemblies for Electric Communications or measuring units.
42.	125713	12-03-1970	SNAMPROGETTI S.p.A., 16 Corso Venezia, Milan, Italy.	Device for panoramic radiography of weldings in metal pipings.
43.	126814	26-05-1970	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London, England.	Anode assembly for electrolytic cells.
44.	126815	26-05-1970	Do.	Do.
45.	126852	07-08-1970	GOULD INC., E-1200 First National Bank Building St. Paul, Minnesota, U.S.A.	Making electrical connections through a storage battery wall.
46.	126943	04-06-1970	UNION CARBIDE CORPORATION, 270, Park Avenue, New York, N.Y. U.S.A.	Leclanche dry cell with thick wall paste separator.
47.	127083	15-06-1970	MITSUBISHI DENKI KABUSHIKI KAISHA, 2-3, 2-Chome, Marunouchi, Chiyoda-ku, Tokyo, Japan.	System for breaking electric motor vehicles.
48.	127088	15-06-1970	N. V. PHILIPS G.F., Netherlands.	Semi conductor device comprising an insulated gate field effect transistor.
49.	127125	16-06-1970	Do.	Crystal support for a semiconductor crystal.
50.	127212	27-07-1970	TED BULDPLÄTTEN A.G., (2) A&G TELEFUNKEN, Teldeo CH 63001; Zuglschwaize, Hqmibush 8, Postfach 1261, Switzerland.	Record carrier for storing recorded signals.
51.	127214	27-07-1970	Do.	Pressure pick up for reproducing deformations of recording carrier relatively when moved in its direction.
52.	127358	01-07-1970	THE ASSOCIATED ELECTRIC INDUSTRIES LIMITED, 1, Stanhope Gate, London W1A 1EH, England.	Protective relays.
53.	127701	24-07-1970	BICC LIMITED, 21, Bloomsbury street, London WC1B 3QN, England.	Electric conductors.
54.	127864	04-08-1970	RCA CORPORATION, 30 Rockefeller Plaza, New York, N.Y. 10020, U.S.A.	Information recording media.
55.	127958	10-08-1970	SIEMENS A.G., Berlin Munich, F.R.G.	Installation comprising asynchronous electrical machine.
56.	128198	27-08-1970	GIRLING LIMITED.	SERVOMOTORS FOR VEHICLE BRAKE SYSTEM.
57.	128267	02-09-1970	SIEMENS A.G., West Germany.	Amplifier regulation arrangement for carrier frequency information transmission.
58.	128397	07-07-1971	J. P. MATUR & P. P. MATHUR, 18, Stanley Road, Allahabad-2, U.P., India.	Electrical circuit for detecting fire and/or burglary.
59.	128498	19-09-1970	ESSEX INCORPORATED, 1601, Wall Street, Fort Wayne, Indiana, 46804 U.S.A.	Pressure sensitive combination switch and circuit breaker construction.
60.	128535	22-09-1970	RHONE POULENF INDUSTRIES, 22 Avenue, Motaigne, Paris, Seine, France.	Electrolysis trough.
61.	128591	25-09-1970	SIEMENS A.G., Berlin and Munich, FRG.	Spark gap assembly for a surge arrester.
62.	128669	30-09-1970	CHLORIDE BATTERIES AUSTRALIA LIMITED, 55 Bryant Street, Padstow, New South Wales-2211, Commonwealth of Australia.	Intercell connector arrangement for multicell batteries.
63.	128946	22-10-1969	BICC LIMITED, 21, Bloomsbury Street, London, WC1B, 3QN, England.	Electric cables.
64.	129023	27-10-1970	SIEMENS A.G., Berlin & Munich, F.R.G.	Dividing net works.
65.	129167	10-11-1970	Do.	Control Arrangement.

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66.	129211	12-11-1970	ETABLISHMENT SALGAD, Vaduz, Liechtenstein.	Percussion fuse for projectiles.
67.	129358	23-11-1970	SIEMENS A.G., Berlin and Munich, West Germany.	Carrier frequency system.
68.	129428	28-11-1970	TELEFONAKTIEBOLAGET LM ERICSSON, 12611, Stockholm, 32, Sweden.	Electric thread shaped conductors.
69.	129519	07-12-1970	THE ENGLISH ELECTRIC COMPANY LIMITED, Bush House Aldwych, London WC2B 4QJ, England.	Relay power supply.
70.	129600	15-12-1970	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Fluorescent lamps.
71.	129723	27-12-1970	RCA CORPORATION, 30 Rockefeller Plaza, New York, N.Y.U.S.A.	Monopulse multimode feed system.
72.	129851	06-01-1971	MEFINA S.A., 5A, Boulevard de Perolles, Fribourg, Switzerland.	Push Button switch.
73.	129882	08-01-1971	SIEMENS A.G., West Germany.	Printed Circuit Board having a plurality of Control channels on one side.
74.	129899	11-01-1971	N. V. PHILIPS' G.F., Netherlands	Semi conductor device.
75.	130040	27-01-1971	SIEMENS A.G., West Germany.	Manufacture of hollow bodies of semiconductor material.
76.	130090	28-01-1971	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Fluorescent lamps.
77.	130283	16-02-1971	SIEMENS A.G., West Germany.	Pulse regenerator circuits for pulse-ccde modulation system.
78.	130285	16-02-1971	D.	Signal channel combination systems and a polarisation diversity receiver system employing the same.
79.	130316	18-02-1971	TELEFONAKTIEBOLAGET LM ERICSSON, 12611, Stockholm 32, Sweden.	Cable connector Member.
80.	130586	16-03-1971	N. V. PHILIPS G.F., Netherlands.	Cathode ray tube.
81.	130634	19-03-1971	ESSEX GROUP INCORPORATED, 1601, Wall Street, Fort, Wayne, Indiana 46804, U.S.A.	Current control apparatus and methods of manufacture thereof.
82.	130688	23-03-1971	IMI MARSTON LIMITED, Wabaston Road, Ford House, Wolverhampton, Staffordshire, England.	Electrodes
83.	130727	22-01-1972	(1) NIPPON HOSO KYOKAI,, 2-1, 2-Chome, Jinnan Shibuyaku, Tokyo, Japan (2) TOKYO SHIBAURA ELECTRIC CO, LTD., 72, Horikawa-cho, Saiwaiku, Kawasaki-shi, Japan.	Metal vapour discharge lamp.
84.	130747	28-01-1972	C. M. JOSEF, Chief Signal and Telecom Engineer of Eastern Railway, Fairlie Place, Calcutta, West Bengal, India.	Device for the detection of train on a rail Section.
85.	130823	02-04-1971	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, USA.	Lighting units.
86.	130859	06-04-1971	GIRLING LIMITED, King's Road, Tyseley, Birmingham, 11, Warwickshire, England.	Servo boosters for vehicle brake system.
87.	130988	14-04-1971	GLOBE-UNION INC., 5757, N. Green Bay Avenue, Milwaukee, Wisconsin, U.S.A.	Storage batteries.
88.	131328	12-05-1971	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House Millbank, London, England.	Bipolar unit for electrolytic cell.
89.	131334	12-05-1971	N. V. PHILIPS' GF, Netherlands.	Method of providing a clamping band around the envelope of a television display tube and display tube so obtained.
90.	131480	24-05-1971	Do.	Semi Conductor device.
91.	131511	27-05-1971	GIRLING LIMITED, King's Road, Tyseley, 11, Birmingham, Warwickshire, England.	Servo-boosters for vehicle brake system.
92.	131698	14-06-1971	MATSUSHITA ELECTRIC INDUSTRIAL CO. LIMITED, 1006, Oazo Kodoma, Kodamashi, Osaka, Japan.	Dry Cells.
93.	131822	21-06-1971	N. V. PHILIPS GF, Netherlands.	Semi conductor device.
94.	132277	28-07-1971	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, USA.	Primary dry cell.

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95.	132279	28-07-1971	GIRLING LIMITED, Warwickshire, England.	Servo motors.	
96.	132311	30-07-1971	COMAGNIE PECHINEY, 28 Rue De Bonnel, 69433, Lyon, France.	Flame guard for the electrode economiser of Electric arc furnace.	
97.	132356	03-08-1971	SIEMENS AG, Witlofbachirplatz 2, 8000 Munchen 2, West Germany.	Phase modulators.	
98.	132357	03-08-1971	SIEMENS A.G., Berlin and Munich, West Germany.	Digital filters.	
99.	132391	05-08-1971	Do.	An electrical machine for providing constant excitation current for a brushless variable speed synchronous machine.	
100.	132392	05-08-1971	Do.	Strip line y-Circulators.	
101.	132410	06-08-1971	PARKS CRAMER CO., 444 Fitchburg, Massachusetts, U.S.A.	Textile yarn forming data communicating machine.	
102.	132597	20-08-1971	N. V. PHILIPS' GF, Eindhoven, Netherlands.	Semi conductor device.	
103.	132598	20-08-1971	Do.	Semi conductor device	
104.	132599	20-08-1971	Do.	Semi conductor device in particular a monolithic integrated circuit.	
105.	132600	20-08-1971	Do.	Semi conductor device having a transistor.	
106.	132601	20-08-1971	Do.	Semi conductor device in particular integrated monolithic circuit.	
107.	132602	20-08-1971	Do.	Apparatus for initiating heat generation phase of electroslag refining process.	
108.	132605	21-08-1971	COMBUSTIN ENGINEERING INC., 1000 Prospect Hill Road, Windsor, State of Connecticut, U.S.A.	Transistor with base steel resistivity determining step.	
109.	132733	01-09-1971	RCA CORPORATION, 20 Rockfeller Plaza, New York, U.S.A.	Device for delaying train of signal sample of an electrical signal.	
110.	132771	03-09-1971	N. V. PHILIPS' GF, Eindhoven, Netherlands.	Semi conductor device.	
111.	132977	20-09-1971	Do.	Automatic process for regulating the optimum current required for producing quality controlled metallurgical product.	
112.	133100	04-10-1971	UNION CARBIDE CORPORATION, New York, U.S.A.	Switch disconnector.	
113.	133135	06-10-1971	ASEA AKTIEBOLAG, Vasteras, Sweden.	Static relaying circuit.	
114.	133173	08-10-1971	WFSTINGLIOUSE BRAKE AND SIGNAL CO. LIMITED, John Street, London WC 1N 2 ES, England.	Variable condenser.	
115.	133351	25-10-1971	MATSUSHITA ELECTRIC INDUSTRIAL CO. LIMITED, 1006, Oaza Kadoma, Kadoma-shi, Osaka, Japan.	Servo-motors or boosters for vehicle brake system.	
116.	133477	04-11-1971	GIRLING LIMITED, Warwickshire, England.	Semiconductor device having at least one gate field effect transistor.	
117.	133508	05-11-1971	N. V. PHILIPS' GF, Eindhoven, Netherlands.	Electric Circuit breaker.	
118.	133601	12-11-1971	YORKSHIRE SWITCHGEAR LIMITED, Grove Mills Meanwood Road, Meanwood, Leeds, England.	Fabricating Integrated circuits with oxidised isolation.	
119.	133740	25-11-1971	FAIRCHILD CAMERA AND INSTRUMENT CORPORATION, 464, Ellis Street, Mountain view, California, USA.	V. H. F. heterodyne circuits.	
120.	133785	29-11-1971	SIEMENS A.G., Berlin and Munich, West Germany, U.S.A.	Frequent multiplier.	
121.	133786	29-11-1971	Do.	Electrochemical filters.	
122.	133787	29-11-1971	Do.	Semiconductor device.	
123.	133858	06-12-1971	N. V. PHILIPS GF, Eindhoven, Netherlands.	BURROUGHS CORPORATION, Second Avenue, Detroit, Michigan, U.S.A.	Display device including gas cells and liquid crystal cells.
124.	133914	10-12-1971	THE ENGLISH ELECTRIC CO. LTD., London, England.	High voltage monitoring system.	
125.	133925	13-12-1971	THORN ELECTRICAL INDUSTRIES LTD., Thorn House Upper St. Martin's Lane, London, England.	Tungsten Halogen lamp.	
126.	134312	18-01-1972	N. V. PHILIPS' GF, Eindhoven, Netherlands.	Semiconductor device having semiconductor capacitance diode.	
127.	134370	24-01-1972	SIEMENS A. G., Berlin and Munich, West Germany.	Electromechanical filters and method of trimming the same.	
128.	134474	02-02-1972	GIRLING LTD., Warwickshire, England.	Adaptor assemblies for connecting complementary members.	
129.	134509	05-02-1972			

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130.	134550	09-02-1972	THE GENERAL CORPORATION, 11, Suenago, Kawasaki, Kanagawa-ken, Japan.	Colour television receiver.
131.	134556	09-02-1972	ERNST JACOB AND CO., L. G., 8900, Augsburg, 41 Dachingerstrasse, 41/43, F.R.G.	Sliding current conductor for mobile cleaning apparatus for textile machinery.
132.	134573	10-02-1972	SIEMENS A. G., Berlin and Munich, F.R.G.	Oscillator frequency control.
133.	134580	11-02-1972	THE GENERAL CORPORATION, 111 Suenago, Kawasaki, Kanagawa-ken, Japan.	Colour television receiver for use in transmission system.
134.	134738	24-02-1972	GIRLING LTD., Birmingham, Warwickshire, England.	Servomotors for vehicle brake system.
135.	134759	28-02-1972	N.V. PHILIPS' GF, Netherlands.	Circuit element which is energised by means of radiations.
136.	134788	01-03-1972	Do.	Semi conductor device.
137.	134839	06-03-1972	WESTINGHOUSE ELECTRIC CORPN., Pittsburgh, Pennsylvania, USA.	Semi conductor device.
138.	134853	07-03-1972	AMERICAN CYANAMID CO., Wayne, New Jersey, U.S.A.	Electrochemical current producing cell.
139.	134857	27-07-1970	TELEFUNKEN AG, A & G- Telefunken, Teldec-CH-6301, Zugl schweiz, Hanibuhl 8, Post fach, 126, Switzerland.	A pick-up adapted for play back of signals stored in a carrier.
140.	134881	08-03-1972	N. V. PHILIPS' GF, Netherlands.	Semi conductor device.
141.	134929	14-03-1972	SIEMENS A. G., Berlin and Munich, F.R.G.	A pulse-width modulated inverter and method for producing the same.
142.	135015	21-03-1972	CANON KABUSHIKI KAISHA, 30-2, 3-Chome Shimameruko, Ohta-ku, Tokyo, Japan.	Transferring images developed by a liquid developer in electrophotographic processes.
143.	135140	03-04-1972	N. V. PHILIPS' GF, Eindhoven Netherlands.	Solid State imaging device.
144.	135190	06-04-1972	SIEMENS AG, West Germany.	Radio relay network system for the transmission of digital signals containing at least one radio relay station serving a plurality of relay links.

PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

Following is the list of Patents deemed to be endorsed with the words Licences of right under the provisions of Section 87 of Patents Act, 1970. The dates in the crescent brackets are dates of Patents.

No. & Title of the invention

- 126791 (25-5-70) Process for the preparation of basic azo dyestuff.
- 139194 (03-8-73) Process for the recovery of lactam.
- 140151 (16-2-73) Method and apparatus for gas purification where the gas contaminated are purified by absorber.
- 140432 (19-12-73) A process for preparing an etching composition suitable for etching glass to give permanent and opaque marking.
- 140482 (12-11-74) Process for producing antibiotics designated XK-88 series.
- 140484 (22-5-75) Process for calcining bauxite.
- 140537 (06-12-74) Improvements in or relating to electrolytic colouring of Al or its alloys for decorative and architectural use.
- 140567 (28-4-73) A process for the preparation of stearoyl aziridine suitable for use as textile softner.
- 140568 (15-12-73) Process for preparation of disazo compound.
- 140570 (17-4-74) Method of preparing catalyst for conversion of hydrocarbon.
- 140577 (8-10-74) A process for preparing a preparation for the treatment of ichthyosis.

140588 (12-2-74) A process for the preparation of hydrogen rich gas.

140593 (25-9-74) Process for preparing stabilised uretino cream emulsion for topical application.

140595 (21-1-75) An improved process for the electrolysis of aqueous alkali metal halide solution.

140615 (2-4-74) Process for preparing carbamate derivatives

140623 (18-7-73) Process for the preparation of ketones.

140630 (20-2-74) Process for the preparation of methyl 3-(2-quinoxaliny methylene) carbamate-N', N"-dioxide.

140677 (2-11-74) Method for preparing desalanyl tetaine derivatives.

140682 (27-5-85) Process and apparatus for the production of protein by microbiological method.

140688 (10-9-73) A process for the manufacture of cast iron refractories of blasting type.

140713 (20-11-73) Process for the preparation of cyclo alkanones and cycloalkanols.

RENEWAL FEES PAID

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#### CESSATION OF PATENTS

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#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No 149268. M/s. Rajasthan Kala Kendre, an Indian Partnership Concern of 91-Crockery Market, Salar Bazar, Delhi-110006 "Toy" February 7, 1980.

Class 1. No.149277. Abdul Majid trading as Handicrafts Industries, Idgah Road, Moradabad, Uttar Pradesh, an Indian National. "Container". February 11, 1980.

Class 1. No. 149278. Abdul Majid trading as Handicrafts Industries, Idgah Road, Moradabad, Uttar Pradesh, an Indian National. "Container". February 11, 1980.

Class 1. No. 149279. Abdul Majid trading as Handicrafts Industries, Idgah Road, Moradabad, Uttar Pradesh, an Indian National. "Container" February 11, 1980.

Class 1. No. 149280. Abdul Majid trading as Handicrafts Industries, Idgah Road, Moradabad, Uttar Pradesh, an Indian National. "Container". February 11, 1980.

Class 1. No. 149293. Nelson Type Foundry Private Limited, 34, Sami Pillai Street, Choolai, Madras-600007, Tamil Nadu, Indian Private Limited Company. "Tamil Type Founts". February 13, 1980.

Class 1. No. 149294. Nelson Type Foundry Private Limited, 34, Sami Pillai Street, Choolai, Madras-600007, Tamil Nadu, Indian Private Limited Company. "Tamil Type Founts". February 13, 1980.

Class 1. No. 149373. Jagdish Engineering Industries, Post Box No. 40, Dharampur Road, Valsad Abrama, Valsad-396001, Gujarat, an Indian Partnership firm. "Ignition Coil". March 18, 1980.

Class 1. No. 149561. Crown Products, B/6, New Super Market, 1st floor, Post Box No. 234, Jamnagar 361001, Gujarat State, an Indian Partnership Firm. "Sharpner". May 23, 1980.

Class 3. No. 149286. Keeptrim Enterprises, 5C/82 New Rohtak Road, New Delhi-110005, Union Territory of India, India, a proprietorship concern. "Massager". February 12, 1980.

Class 3. No. 149321. Peico Electronics & Electricals Limited of Shivsagar Estate, Block "A", Dr. Annie Besant Road, Worli, Bombay 18 (WB), Maharashtra State, India, an Indian Company. "Radio". February 27, 1980.

Class 3. No. 149322. Peico Electronics & Electricals Limited of Shivsagar Estate, Block "A", Dr. Annie Besant Road, Worli, Bombay 18 (WB), Maharashtra State, India, an Indian Company. "Radio". February 27, 1980.

Class 3. No.149329. Parveen Pasricha, B-85, G. T. Karnal Road Industrial Area, Delhi-110033, an Indian National. "Tool Box". February 28, 1980.

Class 3. No.149402. Victor Exports, A-35, Bonanza Industrial Estate, Ashok Chhatrapati Road, Kandivali (East), Mumbai-400067, Maharashtra, an Indian Partnership Firm. "Vacuum Flask". March 24, 1980.

Class 3. No. 149405. Rumi Plastics, 8A, Indian Metal & Forging Rolling Mills Compound, Lal Bahadur Shastri Marg, Vikhroli (West), Bombay-400083, Maharashtra, an Indian Partnership Firm. "Drum" March 24, 1980.

**S. VEDARAMAN,**  
Controller General of Patents,  
Designs and Trade Marks

